

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G06K19/07

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols),  
IPC 7 G06K G11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 856 788 A (WALTER RONALD ET AL) 5 January 1999 (1999-01-05) column 2, line 16 -column 3, line 54; figure 2 — WO 02 41650 A (CHECKPOINT SYSTEMS INC ;MICROCHIP TECH INC (US)) 23 May 2002 (2002-05-23) page 7, line 20 -page 8, line 23; figure 1 — US 6 115 319 A (KINOSHITA YOSHITAKA ET AL) 5 September 2000 (2000-09-05) column 1, line 12-17 column 1, line 35-39 column 1, line 57 -column 2, line 5 column 9, line 14 -column 10, line 8; figures 3,9,11 — —/—	1-7
Y		1-7
Y		1-7

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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Date of the actual completion of the international search	Date of mailing of the international search report
2 September 2003	10/09/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Koegler, L

## C.(Continuation) DOCUMENTS CONSIDERED RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 003 777 A (KOWALSKI JACEK) 21 December 1999 (1999-12-21) column 6, line 50 -column 9, line 15; figures 4,5	1,2,4,5, 7

## INTERNATIONAL SEARCH REPORT

Inter al Application No  
PCT/IB 03/02103

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 5856788	A 05-01-1999	EP 0948766 A1		13-10-1999
		JP 2000513841 T		17-10-2000
		WO 9734222 A1		18-09-1997
WO 0241650	A 23-05-2002	WO 0241650 A1		23-05-2002
		AU 1659101 A		27-05-2002
US 6115319	A 05-09-2000	JP 10228773 A		25-08-1998
		TW 456034 B		21-09-2001
US 6003777	A 21-12-1999	FR 2752076 A1		06-02-1998
		AT 193389 T		15-06-2000
		AU 722833 B2		10-08-2000
		AU 3624497 A		25-02-1998
		CN 1227646 A		01-09-1999
		DE 69702137 D1		29-06-2000
		DE 69702137 T2		01-02-2001
		EP 0917684 A1		26-05-1999
		WO 9806057 A1		12-02-1998
		JP 2001504676 T		03-04-2001
		KR 2000029776 A		25-05-2000